NCGA House Select Committee on COVID19, Education

Jeff Sural

Director

5/14/2020



Definitions

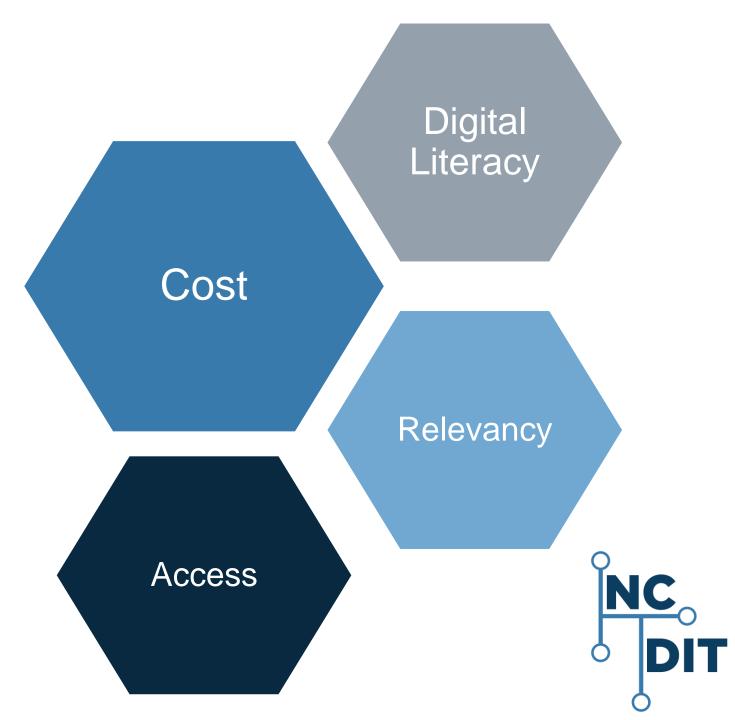
Broadband Adoption:

The percentage of the population that subscribes to a broadband service

The Homework Gap: students are assigned homework requiring internet access to the internet, but don't have home access.



Common Barriers to Broadband Adoption

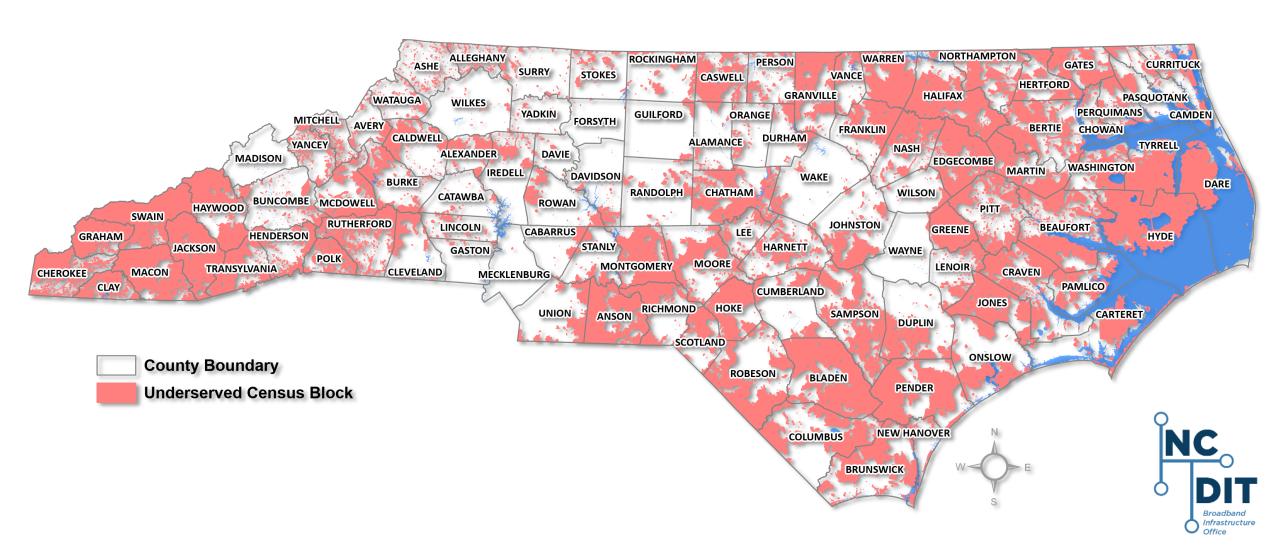


Measuring the Digital Divide Broadband and Digital Equity Data to Know



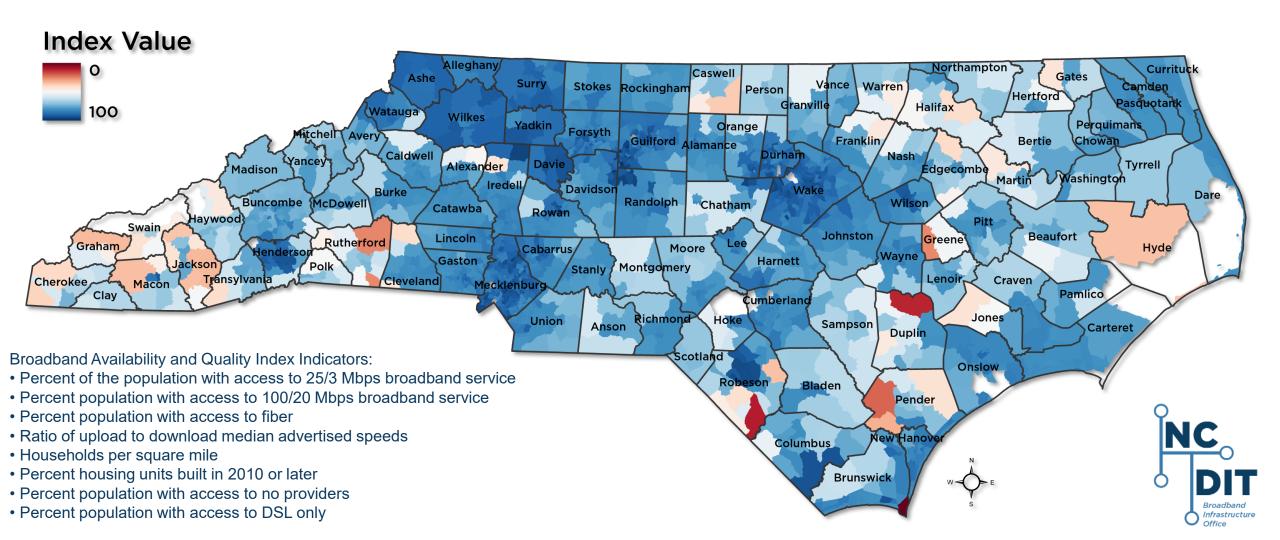
NC Broadband Service Inventory

Underserved Census Blocks
Data derived from U.S. Federal Communications Commission Form 477
Data Release Dec. 2018.

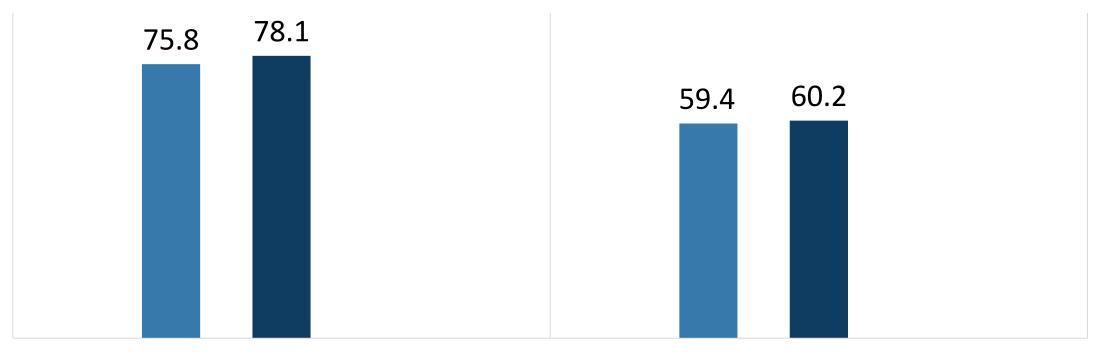


NC Broadband Availability and Quality Index By Census Tract

'The Broadband Adoption Potential Index' is a compilation of eight indicators (see below for list) combined to create a holistic measure of broadband access in NC's counties. For more information about the methodology, purpose, and how to understand your county's score visit: www.ncbroadband.gov



2017 Broadband Adoption Rates



ADOPTION AT ANY SPEED

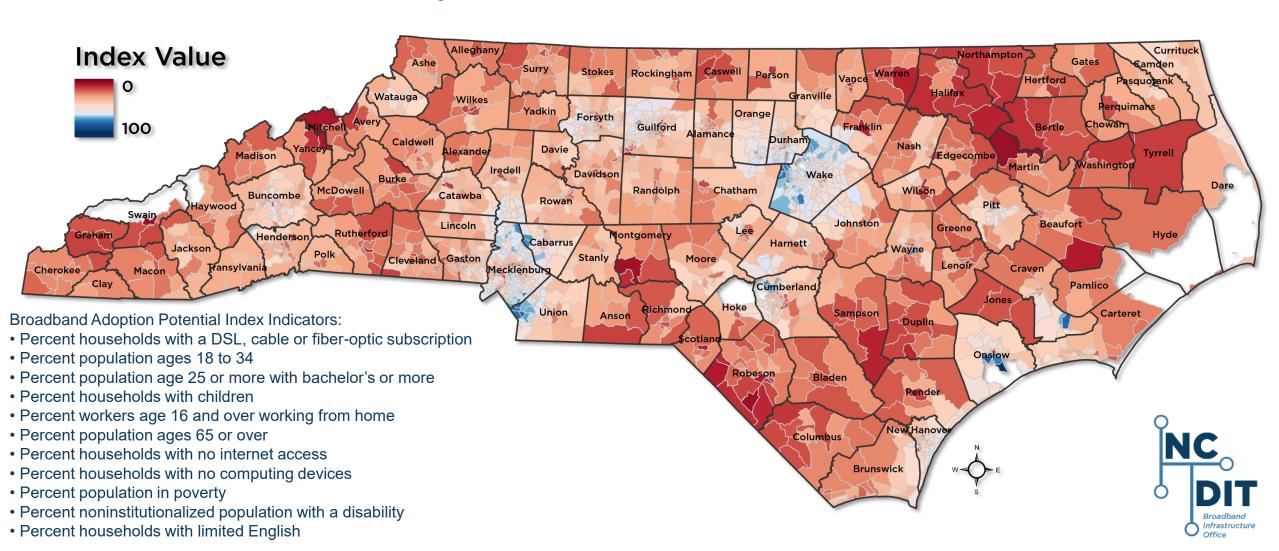
ADOPTION, 25/3

■ North Carolina
■ US

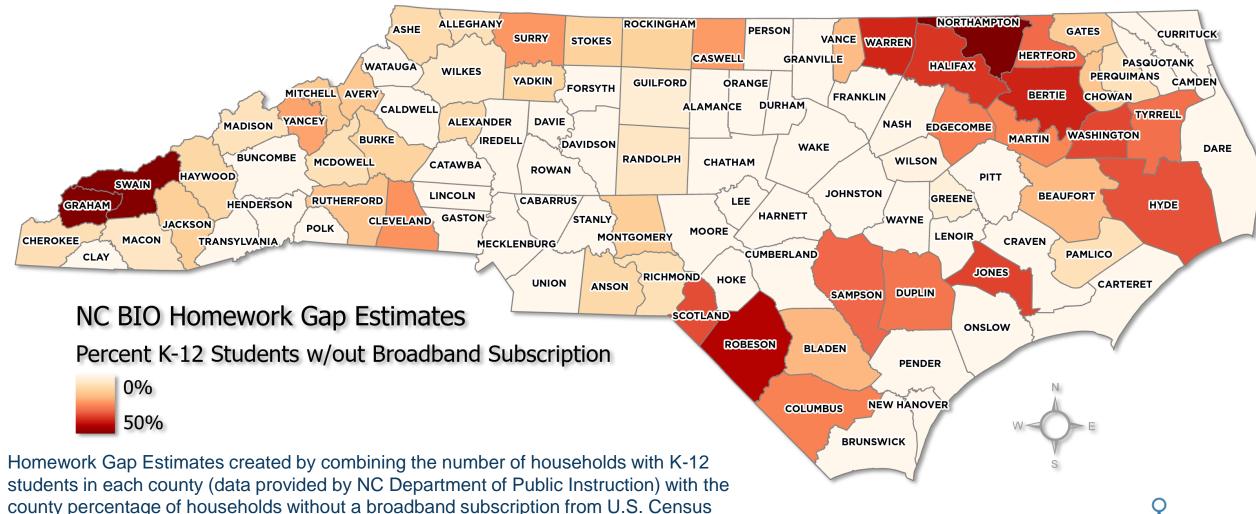


NC Broadband Adoption Potential Index By Census Tract

'The Broadband Adoption Potential Index' is a compilation of eleven indicators (see below for list) combined to create a holistic measure of county's broadband adoption potential. For more information about the methodology, purpose, and how to understand your county's score visit: www.ncbroadband.gov



North Carolina's Estimated Homework Gap



The U.S. Census Bureau's ACS 5-year data contains estimates and margins of error. Data are based on a sample and are subject to sampling variability. Current Vintage: 2014-2018

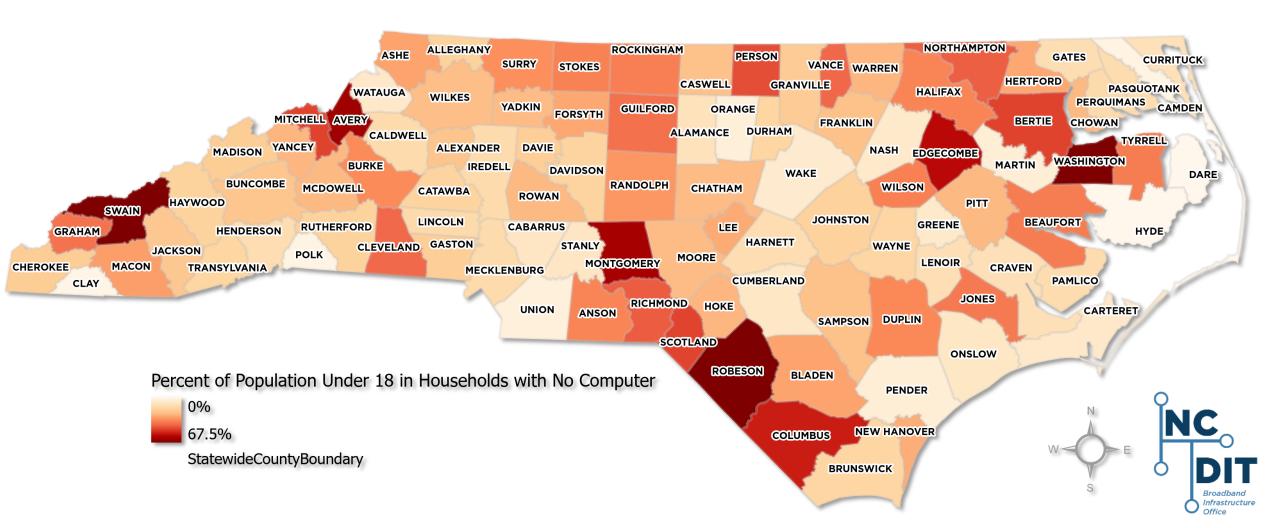
Bureau American Community Survey (ACS) data.



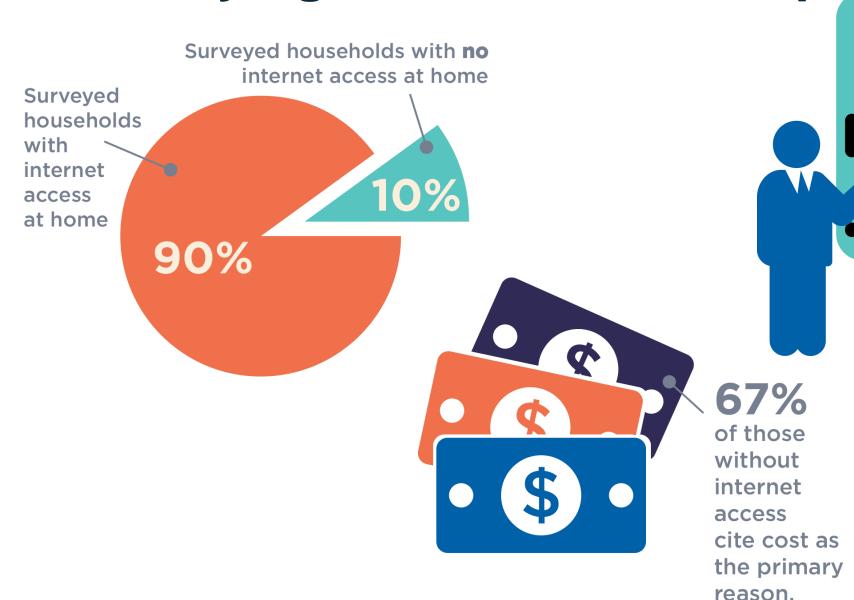
NC Population Under 18 without Computers

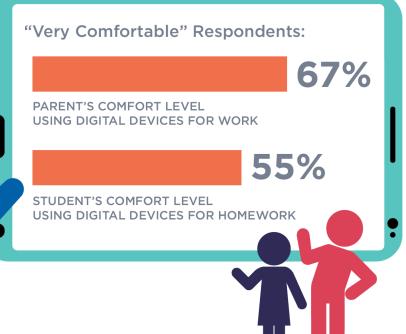
The U.S. Census Bureau's American Community Survey (ACS) 5-year data contains estimates and margins of error. Data are based on a sample and are subject to sampling variability.

Current Vintage: 2014-2018



Quantifying the Homework Gap







Homework Gap Report and Recommendations

THE HOMEWORK GAP IN NORTH CAROLINA

A Pilot Study of K-12 Households



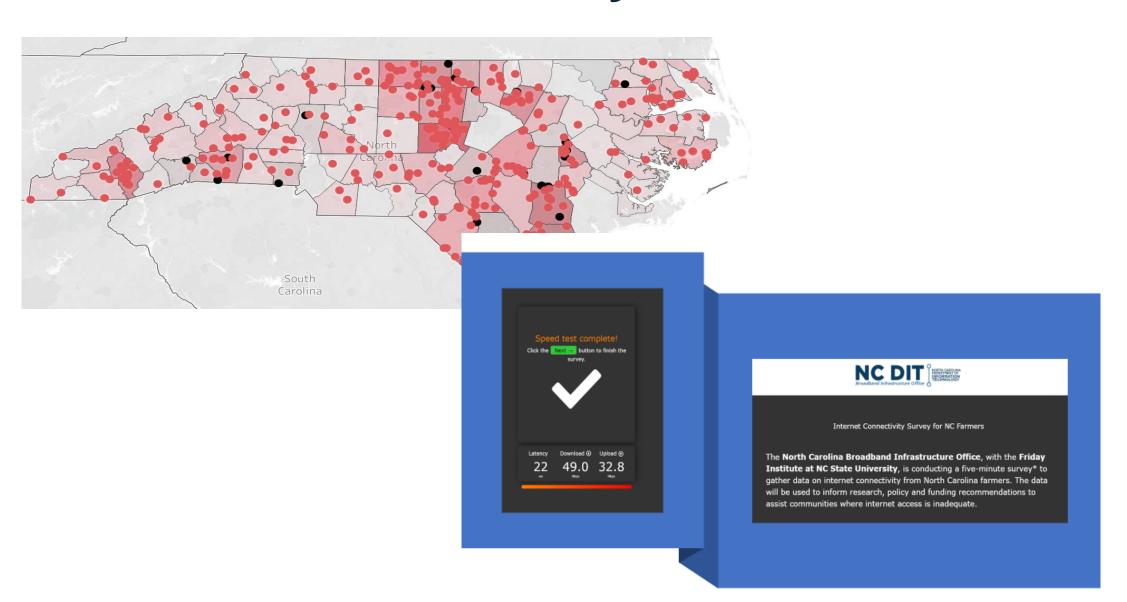




- 1. Create a grant program housed in NC BIO
- 2. Implement policies and programs that increase the availability, adoption, and use of broadband.
- 3. Foster cross-sector collaborations and public-private partnerships to implement and sustain multi-faceted solutions.
- 4. Continue to study the Homework Gap.
- 5. Local governments and LEAs should continue to innovate and partner with the state
- 6. Modify and update the survey instrument and its distribution.



New Survey Tool Launch





Closing the Digital Divide Through Programs, Policy & Tools



NC Digital Equity and Inclusion Collaborative



CHARLOTTE DIGITAL INCLUSION ALLIANCE













State Board of Education
Department of Public Instruction





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DIGITAL LITERACY FOR ALL LEARNERS

A PARTNERSHIP WITH LINC SILS AND LOCAL LIBRARIES



BIO's Approach to Digital Inclusion



- Use Data and Best Practices
- Create Scalable Models
 - IMLS HWG
 - DNCR SL HH
- Holistic Programs
- Strategic Alignment
- Creative Opportunities
- Collaborate with and Support Experts



Nationally Recognized Digital Inclusion Leader

- Only state with existing efforts to close the homework gap
- Only state requested to testify before U.S. Congress during Feb. 2020 digital inclusion hearing
- One of nine states profiled and heralded for it's promising practices in the Pew Charitable Trust's Research and Report





New research identifies tactics for connecting unserved communities



Mr. SURAL

COVID-19: NCDIT Immediate Response



Immediate Response

- FCC Pledge: don't terminate service; waive late fees; open Wi-Fi hotspots
- Governor Cooper and Secretary Doaks call with NC internet service providers
 - Most above and beyond FCC pledge
- Interactive map, website listing free and reduced-price internet offerings and public Wi-Fi access locations: ncbroadband.gov/covid19broadband/
- Identify resources to procure school bus equipment to support WiFi access
- Providing LEAs and DPI with guidance and support on convenience contracts for cellular service, tablets, hot spots and laptops, and negotiate better prices for duration of emergency; NCDIT Cybersecurity support
- Interagency Coordination/Communication: DPI, DHHS, EM, Counties, COGs

To date, 180 WiFi Rangers for buses have been delivered to:

- Asheboro
- Avery
- Bertie
- Bladen
- Burke
- Caswell
- Chowan
- Clinton City Schools
- Columbus
- Duplin
- Edgecombe
- Franklin

- Gaston
- Gates
- Granville
- Guilford
- Halifax
- Harnett
- Hertford
- Johnston
- Martin
- Montgomery
- Northampton
- Pender

- Perquimans
- Person
- Randolph
- Robeson
- Rockingham
- Sampson
- Scotland
- Tyrrell
- Vance
- Warren
- Wayne
- Yadkin



Immediate Response

- Expedite rolling payments for existing GREAT grant recipients to encourage faster deployment
- Exploring FCC waiver to allow school networks to serve as backhaul (\$6M/mo.)
- Support the Attorney General's convening responsibility pursuant to EO 124 with telecommunications providers regarding consumer protection rules
- Expedite issuance of next generation Dig Once policy
 - Expedite issuance of guidance to local governments for municipal road projects
- Use DIT iCenter authority to identify pilot sites for small-scale wireless projects
- DIT/DHHS to identify opportunities for investment on telehealth, including possible appropriation requests



Long-term Solutions

- Ensure adequate federal grant funding is coming to the state
- Increase GREAT Grant to \$135M and amend grant proposal evaluation criteria to specifically fund areas not funded through federal programs and allow DIT flexibility to amend criteria and protest process for projects during state of emergency.
 - GREAT amendment or new program to support low-orbit satellite service; subsidy to rural homeowners for the equipment.
- Pass FIBER NC Act allowing county and local governments to finance or install infrastructure for use by internet service providers.
- Establish tax credit for broadband providers that accept federal Lifeline subsidy for home access.



Long-term Solutions

- Require health insurance coverage for telemedicine services and connectivity costs.
- Consumer Protections:
 - Raise the broadband definition to 25/25 to create a minimum service threshold that can be used for grant funding
 - Hold ISPs to a contractual commitment: if you say 10/1, then serve at 10/1
 - Home equipment standards

